PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Nobutaka MAGOME et al.

Group Art Unit: 2877

Application No.: 10/594,509

Filed: September 28, 2006 Docket No.: 128815

For: EXPOSURE APPARATUS, EXPOSURE METHOD AND DEVICE MANUFACTURING

METHOD, AND SURFACE SHAPE DETECTION UNIT

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- 2. Relevance of one or more non-English language reference is discussed in the present specification. See References 15 21 and 47.
- 3. One or more reference cited herein was cited in the International Search Report.

 An English language version of the International Search Report is attached for the Examiner's information. See References 6 8 and 22 29.
- 4. In accordance with 37 CFR §1.98(a)(2)(ii), copies of any U.S. patents and patent application publications are not attached.
- 5. An English language Abstract of one or more non-English language reference is attached hereto. See References 15 25, 27 32, 34 45 and 47.
- 6. A computer-generated English language translation of one or more Japanese Patent Publication cited herein has been obtained from the website of the Japanese Patent Office ([http://www.jpo.go.jp]), and is attached, but has not been reviewed for accuracy. See References 15 17, 21, 23, 25, 27 29, 33 and 35.

7. An English language translation of one or more non-English references is attached, but has not been reviewed for accuracy. See references 22, 24, 30 - 32, 34, 36 - 45 and 47.

8. Reference 2 corresponds to reference 16.
Reference 3 corresponds to reference 17.
Reference 4 corresponds to reference 18.
Reference 5 corresponds to reference 19.
Reference 6 corresponds to reference 23.
Reference 7 corresponds to reference 27.
Reference 8 corresponds to reference 28.
Reference 25 corresponds to reference 26.

Respectfully submitted,

Mario A. Costantino Registration No. 33,565

Randi B. Isaacs Registration No. 56,046

MAC:RBI/kam

Date: February 14, 2007

OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, Virginia 22320 Telephone: (703) 836-6400 DEPOSIT ACCOUNT USE
AUTHORIZATION
Please grant any extension
necessary for entry;
Charge any fee due to our
Deposit Account No. 15-0461

Sheet	1	of	3
	•	••	-

Form PTO-1449 US Dept. of Cor (REV. 1/06) PATENT & TRADEMARK C					APPLICATION NO. 10/594,509			
	INFORMAT	TION DISCLOSURE STATEMENT						
(Use several sheets if necessary)					APPLICANT(S) Nobutaka MAGOME et al.			
				FILING Septem	DATE ber 28, 2006	GROUP 2877		
		U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	Document Number	Da	Date Name				
	1	5,448,332	09/05/19	95	SAKAKIBARA et al.			
	2	2003/0025890 A1	02/06/20	03	NISHINAGA			
	3	5,534,970	07/09/19	96	NAKASHIMA et al.			
	4	5,151,750	09/29/19	92	MAGOME et al.			
	5	4,780,617	10/25/19	88	UMATATE et al.	_		
	6	2002/0039178 A1	04/04/20	02	TAKEISHI			
	7	5,834,767	11/10/19	98	HASEGAWA et al.			
	8	2004/0051856 AT	03/18/20	04	BLEEKER et al.	_		
	9	4,346,164	08/24/19	82	TABARELLI et al.		-	
	10	4,480,910	11/06/19	84	TAKANASHI et al.			
	11	5,610,683	03/11/1997 TAKAHASHI 02/03/1998 FUKUDA et al. 10/20/1998 SUWA					
	12	5,715,039						
	13	5,825,043						
	14	2004/0165159 A1	08/26/20	08/26/2004 LOF et al.			-	
	(27.22 - 1 - 1)	FORE	IGN PATI	ENT DOC	CUMENTS	1982		
Examiner Initials	Cite No.	Document Number	Da	ite	Country	With English Abstract	With English Translation	
	15	JP A 6-283403	10/07/19	94	JAPAN	х	х	
	16	JP A 2001-313250	11/09/20	01	1 JAPAN		x	
			OTHER D	OCUME	NTS			
Examiner Initials	Cite No.							
	<u> </u>							
				_				
EXAMINER					DATE	CONSIDERED		
Examiner:		itation considered, whether or not citationsidered. Include copy of this form with			e with M.P.E.P. 609; draw line through in to applicant.	citation if not in	conformance	

Date: February 14, 2007

NFORMATION DISCLOSURE STATEMENT CUes several sheets if necessary) APPLICANT(8) Notucise M (ADOME et al.	Form PTO-1449 US Dept. of Commerce (REV, 1/06) PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 128815			APPLICATION NO. 10/594,509			
Nobustica MAGOME et al. FILING DATE GROUP 2877	INFORMATION DISCLOSURE STATEMENT								
September 28, 2006 2877	(Use several sheets if necessary)								
Cite No. Document Number Date Name Name									
			U.S. PATENT DOCUMENTS						
Date Country With English Abstract Finglish Finglish English Finglish English English Finglish English English Finglish Finglish English Finglish Eng			Document Number	Da	te		Name		
Date Country With English Abstract Finglish Finglish English Finglish English English Finglish English English Finglish Finglish English Finglish Eng									
Date Country English Abstract Translation 17			FORE	EIGN PATI	ENT DOC	UMENTS	Τ		
18 JP A 2-272305 11/07/1990 JAPAN X 19 JP A 61-44429 03/04/1986 JAPAN X 20 JP A 4-221704 08/12/1992 JAPAN X 21 JP A 2001-4336 01/12/2001 JAPAN X X 22 JP A 2004-71851 03/04/2004 JAPAN X X 23 JP A 2001-223157 08/17/2001 JAPAN X X 24 JP A 2002-203763 07/19/2002 JAPAN X X 25 JP A 10-214783 08/11/1998 JAPAN X X 26 EP 0 951 054 A1 10/20/1999 EUROPE			Document Number	Da	ite	Country		English	
19		17	JP A 6-349701	12/22/19	94	JAPAN		х	х
20		18	JP A 2-272305	11/07/19	90	JAPAN		x	
21 JP A 2001-4336 01/12/2001 JAPAN X X 22 JP A 2004-71851 03/04/2004 JAPAN X X 23 JP A 2001-223157 08/17/2001 JAPAN X X 24 JP A 2002-203763 07/19/2002 JAPAN X X 25 JP A 10-214783 08/11/1998 JAPAN X X 26 EP 0 951 054 A1 10/20/1999 EUROPE 27 JP A 9-210629 08/12/1997 JAPAN X X 28 JP A 2004-48009 02/12/2004 JAPAN X X 29 JP A 2004-86193 03/18/2004 JAPAN X X 30 JP A 4-305915 10/28/1992 JAPAN X X 31 JP A 4-305917 10/28/1992 JAPAN X X 32 JP A 5-62877 03/12/1993 JAPAN X X 33 JP A 6-124873 05/06/1994 JAPAN X X 34 JP A 7-220990 08/18/1995 JAPAN X X OTHER DOCUMENTS Examiner Cite (Including Author, Title, Date, Pertinent Pages, etc.)		19	JP A 61-44429	03/04/19	86	JAPAN		x	
22 JP A 2004-71851 03/04/2004 JAPAN X X 23 JP A 2001-223157 08/17/2001 JAPAN X X 24 JP A 2002-203763 07/19/2002 JAPAN X X 25 JP A 10-214783 08/11/1998 JAPAN X X 26 EP 0 951 054 A1 10/20/1999 EUROPE 27 JP A 9-210629 08/12/1997 JAPAN X X 28 JP A 2004-48009 02/12/2004 JAPAN X X 29 JP A 2004-86193 03/18/2004 JAPAN X X 30 JP A 4-305915 10/28/1992 JAPAN X X 31 JP A 4-305917 10/28/1992 JAPAN X X 32 JP A 5-62877 03/12/1993 JAPAN X X 33 JP A 6-124873 05/06/1994 JAPAN X X 34 JP A 7-220990 08/18/1995 JAPAN X X OTHER DOCUMENTS Examiner Cite (Including Author		20	JP A 4-221704	08/12/19	92	JAPAN		x	
23 JP A 2001-223157 08/17/2001 JAPAN X X 24 JP A 2002-203763 07/19/2002 JAPAN X X 25 JP A 10-214783 08/11/1998 JAPAN X X 26 EP 0 951 054 A1 10/20/1999 EUROPE 27 JP A 9-210629 08/12/1997 JAPAN X X 28 JP A 2004-48009 02/12/2004 JAPAN X X 29 JP A 2004-86193 03/18/2004 JAPAN X X 30 JP A 4-305915 10/28/1992 JAPAN X X 31 JP A 4-305917 10/28/1992 JAPAN X X 32 JP A 5-62877 03/12/1993 JAPAN X X 33 JP A 6-124873 05/06/1994 JAPAN X X 34 JP A 7-220990 08/18/1995 JAPAN X X OTHER DOCUMENTS Examiner Cite (Including Author, Title, Date, Pertinent Pages, etc.)		21	JP A 2001-4336	01/12/20	01	JAPAN		x	x
24 JP A 2002-203763 07/19/2002 JAPAN X X 25 JP A 10-214783 08/11/1998 JAPAN X X 26 EP 0 951 054 A1 10/20/1999 EUROPE	-	22	JP A 2004-71851	03/04/20	04	JAPAN		x	x
25 JP A 10-214783 08/11/1998 JAPAN X X 26 EP 0 951 054 A1 10/20/1999 EUROPE 27 JP A 9-210629 08/12/1997 JAPAN X X 28 JP A 2004-48009 02/12/2004 JAPAN X X 29 JP A 2004-86193 03/18/2004 JAPAN X X 30 JP A 4-305915 10/28/1992 JAPAN X X 31 JP A 4-305917 10/28/1992 JAPAN X X 32 JP A 5-62877 03/12/1993 JAPAN X X 33 JP A 6-124873 05/06/1994 JAPAN X X 34 JP A 7-220990 08/18/1995 JAPAN X X OTHER DOCUMENTS Examiner Cite (Including Author, Title, Date, Pertinent Pages, etc.)		23	JP A 2001-223157	08/17/20	01	JAPAN		x	x
26 EP 0 951 054 A1 10/20/1999 EUROPE 27 JP A 9-210629 08/12/1997 JAPAN X X 28 JP A 2004-48009 02/12/2004 JAPAN X X 29 JP A 2004-86193 03/18/2004 JAPAN X X 30 JP A 4-305915 10/28/1992 JAPAN X X 31 JP A 4-305917 10/28/1992 JAPAN X X 32 JP A 5-62877 03/12/1993 JAPAN X X 33 JP A 6-124873 05/06/1994 JAPAN X X 34 JP A 7-220990 08/18/1995 JAPAN X X Cite (Including Author, Title, Date, Pertinent Pages, etc.)	-	24	JP A 2002-203763	07/19/20	02	JAPAN		x	х
27 JP A 9-210629 08/12/1997 JAPAN X X 28 JP A 2004-48009 02/12/2004 JAPAN X X 29 JP A 2004-86193 03/18/2004 JAPAN X X 30 JP A 4-305915 10/28/1992 JAPAN X X 31 JP A 4-305917 10/28/1992 JAPAN X X 32 JP A 5-62877 03/12/1993 JAPAN X X 33 JP A 6-124873 05/06/1994 JAPAN X X 34 JP A 7-220990 08/18/1995 JAPAN X X OTHER DOCUMENTS Examiner Cite (Including Author, Title, Date, Pertinent Pages, etc.)		25	JP A 10-214783	08/11/19	98	JAPAN		x	x
28 JP A 2004-48009 02/12/2004 JAPAN X X 29 JP A 2004-86193 03/18/2004 JAPAN X X 30 JP A 4-305915 10/28/1992 JAPAN X X 31 JP A 4-305917 10/28/1992 JAPAN X X 32 JP A 5-62877 03/12/1993 JAPAN X X 33 JP A 6-124873 05/06/1994 JAPAN X X 34 JP A 7-220990 08/18/1995 JAPAN X X OTHER DOCUMENTS Examiner Cite (Including Author, Title, Date, Pertinent Pages, etc.)		26	EP 0 951 054 A1	10/20/19	99	EUROPE			
29 JP A 2004-86193 03/18/2004 JAPAN X X 30 JP A 4-305915 10/28/1992 JAPAN X X 31 JP A 4-305917 10/28/1992 JAPAN X X 32 JP A 5-62877 03/12/1993 JAPAN X X 33 JP A 6-124873 05/06/1994 JAPAN X X 34 JP A 7-220990 08/18/1995 JAPAN X X OTHER DOCUMENTS Examiner Cite (Including Author, Title, Date, Pertinent Pages, etc.)		27	JP A 9-210629	08/12/19		JAPAN		X	x
30		28	JP A 2004-48009	02/12/20	04	JAPAN		x	<u> </u>
31		29	JP A 2004-86193	03/18/20	04	JAPAN		x	X
32 JP A 5-62877 03/12/1993 JAPAN X X 33 JP A 6-124873 05/06/1994 JAPAN X X 34 JP A 7-220990 08/18/1995 JAPAN X X OTHER DOCUMENTS Examiner Cite (Including Author, Title, Date, Pertinent Pages, etc.)		30	JP A 4-305915	10/28/19	92	2 JAPAN		x	х
33 JP A 6-124873 05/06/1994 JAPAN X X 34 JP A 7-220990 08/18/1995 JAPAN X X OTHER DOCUMENTS Examiner Cite (Including Author, Title, Date, Pertinent Pages, etc.)		31	JP A 4-305917	10/28/19	92	JAPAN		x	x
34 JP A 7-220990 08/18/1995 JAPAN X X OTHER DOCUMENTS Examiner Cite (Including Author, Title, Date, Pertinent Pages, etc.)		32	JP A 5-62877	03/12/19	93	JAPAN		Х	х
OTHER DOCUMENTS Examiner Cite (Including Author, Title, Date, Pertinent Pages, etc.)		33	JP A 6-124873	05/06/19	94	JAPAN		X	x
Examiner Cite (Including Author, Title, Date, Pertinent Pages, etc.)		34	JP A 7-220990	08/18/19	95	JAPAN		х	<u> </u>
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			1	OTHER D	<u>OCUMEI</u>	NTS			
			(Including Author, Title, Date, Pertinent Pages, etc.)						
			/ b					_	1
EXAMINER DATE CONSIDERED	EXAMINER				-		DATE CO	NSIDERED	
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	Examiner:						rough cita	tion if not in	сопformance

Date: February 14, 2007

NFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Form PTO-1449 (REV. 1/06) P		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 128815		APPLICATION NO. 10/594,509			
Part	INFORMATION DISCLOSURE STATEMENT									
Examiner September 28, 2006 2877 1	(Use several sheets if necessary)									
Examiner									_	
Date Name No. Document Number Date Name Name		_	U.S. PATENT DOCUMENTS							
Date Country With English Translation Date Country With English Interest Translation Date Country With English Interest Translation Date Date Country With English Interest Date D			Document Number	Date N:		Name	lame			
Date Country With English Translation Date Country With English Interest Translation Date Country With English Interest Translation Date Date Country With English Interest Date D										
Inditials No. Document Number Date Country Abstract Translation Transl		I -	FORI	EIGN PATE	ENT DOC	UMENTS				
36			Document Number	Da	ite	Country		English	English	
37		35	JP A 8-316125	11/29/19	96	JAPAN		x	x	
38		36	JP A 10-303114	11/13/19	98	JAPAN		x	x	
39		37	JP A 10-340846	12/22/19	98	JAPAN		x	х	
40		38	JP A 11-176727	07/02/19	99	JAPAN		x	X	
41		39	JP A 58-202448	11/25/19	83	JAPAN		x	х	
42 JP A 63-157419 06/30/1988 JAPAN X X 43 JP A 2000-58436 02/25/2000 JAPAN X X 44 DD 221 563 A1 04/24/1985 GERMANY X X 45 DD 224 448 A1 07/03/1985 GERMANY X X 46 WO 2004/019128 A2 03/04/2004 WIPO X 47 WO 99/49504 09/30/1999 WIPO X X X DTHER DOCUMENTS Examiner Initials No. (Including Author, Title, Date, Pertinent Pages, etc.)		40	JP A 59-19912	02/01/19	84	JAPAN		х	х	
43		41	JP A 62-65326	03/24/19	87	JAPAN		х	х	
44 DD 221 563 A1 04/24/1985 GERMANY X X 45 DD 224 448 A1 07/03/1985 GERMANY X X 46 WO 2004/019128 A2 03/04/2004 WIPO		42	JP A 63-157419	06/30/19	88	JAPAN		х	×	
45 DD 224 448 A1 07/03/1985 GERMANY X X 46		43	JP A 2000-58436	02/25/20	00	JAPAN		х	х	
46 WO 2004/019128 A2 03/04/2004 WIPO X X X 47 WO 99/49504 09/30/1999 WIPO X X OTHER DOCUMENTS Examiner Initials No. (Including Author, Title, Date, Pertinent Pages, etc.) EXAMINER DATE CONSIDERED		44	DD 221 563 A1	04/24/19	/24/1985 GERMANY :			x	x	
47 WO 99/49504 09/30/1999 WIPO X X X X X X X X X		45	DD 224 448 A1				Х	х		
Examiner Initials No. (Including Author, Title, Date, Pertinent Pages, etc.) EXAMINER DATE CONSIDERED		46	WO 2004/019128 A2			WIPO				
Examiner Initials No. (Including Author, Title, Date, Pertinent Pages, etc.) EXAMINER DATE CONSIDERED		47	WO 99/49504	09/30/19	99	WIPO		х	x	
Examiner Initials No. (Including Author, Title, Date, Pertinent Pages, etc.) EXAMINER DATE CONSIDERED						_				
Examiner Initials No. (Including Author, Title, Date, Pertinent Pages, etc.) EXAMINER DATE CONSIDERED										
Examiner Initials No. (Including Author, Title, Date, Pertinent Pages, etc.) EXAMINER DATE CONSIDERED		0 0								
Examiner Initials No. (Including Author, Title, Date, Pertinent Pages, etc.) EXAMINER DATE CONSIDERED										
Examiner Initials No. (Including Author, Title, Date, Pertinent Pages, etc.) EXAMINER DATE CONSIDERED										
Initials No. EXAMÍNER DATE CONSIDERED		1	Г	OTHER D	OCUME	NTS				
			(Including Author, Title, Date, Pertinent Pages, etc.)							
	EXAMINER	L			<u>-</u>		DATE C	ONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance	Examiner:	Initial if o	citation considered, whether or not citati	on is in co	nformanc	e with M.P.E.P. 609; draw line	 through cita	ation if not in	conformance	

Date: February 14, 2007